

## Cognia STEM K-12 Standards

### STEM Community

*Standard 1* - School/program provides equitable opportunities for students to engage in high quality STEM learning.

*Standard 2* - STEM educators collaborate to develop, implement, and improve high quality STEM learning activities.

*Standard 3* - School/program engages diverse STEM community in order to support and sustain STEM programs and initiatives.

*Standard 4* - School/program has established a shared vision for STEM and has leadership structures to support effective implementation.

### STEM Learning Culture

*Standard 5* - Leaders ensure that all stakeholders have ongoing opportunities to access information and learn about STEM implementation.

*Standard 6* - Educators and leaders participate in an ongoing system of STEM-specific professional learning.

*Standard 7* - Students engage collaboratively in authentic inquiry during ongoing units of study.

*Standard 8* - Students engage in self-directed STEM learning guided by educators who are effective facilitators of learning.

### STEM Experiences

*Standard 9* - School/program provides within-school and extra-curricular opportunities for students to extend STEM learning.

*Standard 10* - Students demonstrate their learning through performance-based assessments and have opportunities to develop self-assessment and self-monitoring skills.

*Standard 11* - STEM learning experiences integrate all STEM disciplines with an emphasis on processes and practices associated with STEM.

*Standard 12* - School/program provides high quality STEM courses and curriculum aligned to recognized standards and organized into interdisciplinary frameworks.

### STEM Outcomes

*Standard 13* - Students demonstrate STEM content knowledge representative of STEM literacy outcomes that prepare them for the next level of learning and work.

*Standard 14* - Students develop STEM skills and cross-cutting competencies that support workforce readiness.

*Standard 15* - School/program engages in a continuous improvement process for STEM.

*Standard 16* - School/program conducts evaluative activities to ensure the effectiveness of STEM implementation.